

**Amendments to the Claims:**

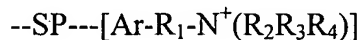
This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1–14 (cancelled)

Claim 15 (previously presented): An anion-exchanger (1) comprising a plurality of anion-exchange ligands each of which is attached via a spacer to a hydrophilic base matrix, wherein

(a) the ligands plus their spacers comply with the formula:



wherein

(i) [Ar-R<sub>1</sub>-N<sup>+</sup>(R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>)] represents a ligand in which

- a) Ar is an aromatic ring,
- b) R<sub>1</sub> is [(L)<sub>n</sub>R'<sub>1</sub>]<sub>m</sub> wherein
  - n and m are integers selected amongst zero or 1;
  - L is an amino nitrogen, an ether oxygen or a thioether sulphur;
  - R'<sub>1</sub> is a bivalent linker group selected among

- 1) linear, branched or cyclic hydrocarbon groups;
- 2)  $-C(=NH)-$ ;
- c) R2-4 are selected among hydrogen and lower alkyls;
- (ii) SP is a spacer providing a carbon, a nitrogen, a sulphur or an oxygen directly attached to  $Ar-R_1-N^+(R_2R_3R_4)$ ;
- (iii) --- represents that the spacer is replacing a hydrogen in  $(Ar-R_1-N^+(R_2R_3R_4))$ ;
- (iv) -- represents binding to the matrix; and
- (b) the anion-exchanger (1) has a maximal breakthrough capacity in the pH-interval 2-13 for at least one reference proteins selected from the group consisting of ovalbumin, conalbumin, bovine serum albumin,  $\beta$ -lactoglobulin,  $\alpha$ -lactalbumin, lysozyme, IgG, and soybean trypsin inhibitor (STI) which is at least 200% of the maximal breakthrough capacity in the pH-interval 2-12 obtained for a Q-exchanger  $(-CH_2CH(OH)CH_2N^+(CH_3)_3)$  (anion-exchanger 2).

Claim 16 (previously presented): The anion-exchanger of claim 15, wherein the relative break-through capacity is measured under anion-exchanger condition.

Claim 17 (withdrawn): A method for testing the appropriateness of one or more anion-exchangers for removing a substance from a liquid, said method comprising the steps:

- (a) providing a library which includes

- (i) one or more anion-exchangers to be tested (exchangers 1, 2, 3, 4 ..... n;  
wherein  $n = \text{an integer} > 0$ ) each of which anion-exchangers differs with  
respect to kind of ligand (ligands 1, 2, 3, 4, .....n), and
  - (ii) a reference anion-exchanger having a reference ligand, the support matrix  
etc being essentially the same in the exchangers 1, 2, 3, 4 .... n and in the  
reference anion-exchanger;
- (b) determining the maximal breakthrough capacity in the pH-interval 2-12 of  
exchanger 1 for the substance at a predetermined condition;
  - (c) determining the maximal breakthrough capacity in the pH-interval 2-12 of the  
reference anion-exchanger for the substance at the same condition as in step (b);
  - (d) determining, by comparing, the maximal breakthrough capacities obtained in  
steps (b) and (c), if anion-exchanger 1 is appropriate to use for removing the  
substance; and
  - (e) repeating steps (b)-(d) for at least one of the exchangers 2, 3, 4 ... n.

Claim 18 (withdrawn): The method of claim 17, wherein the steps (b) and (c) are carried  
out under anion-exchanger conditions.

Claim 19 (withdrawn): A method for removing salt from a negatively charged substance  
when present in a solution (liquid (I)) comprising the steps of:

- (i) contacting liquid (I) liquid with an anion-exchanger (1) that comprises a base matrix carrying a plurality of ligands in which there is a positively charged nitrogen under conditions permitting binding between the anion-exchanger and the substance,
- (ii) desorbing said substance from said anion-exchanger by the use of a liquid (liquid (II)) at a desired pH

wherein

- (A) said anion-exchanger (1) is
  - (a) capable of binding the substance of interest in an aqueous reference liquid at an ionic strength corresponding to 0.25 M NaCl; and
  - (b) permits a maximal breakthrough capacity in the pH interval 2-12 for the substance  $\geq 200\%$ , such as  $\geq 300\%$  or  $\geq 500\%$  or  $\geq 1000\%$ , of the breakthrough capacity of the substance for Q-Sepharose Fast Flow, said anion-exchangers having essentially the same ligand density and the breakthrough capacities being determined under the same conditions; and
- (B) the pH of liquid (II) in step (ii) is adjusted by the use of an acid-base pair to a value that means a lower net positive charge on the anion-exchanger and/or a lower net negative or positive charge on the substance thereby enabling elution at a lowered ionic strength compared to liquid (I).

Claim 20 (withdrawn): The method of claim 19, wherein at least one member of the acid-base pair buffer has a vapour pressure that is higher than the substance.

Claim 21 (withdrawn): The method of claim 19, wherein the substance in the liquid of low salt content obtained in step (ii) is ionized in a mass spectrometer.